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Metal Finishing Suppliers' Association, Inc.

PRODUCT INFORMATION FORM

Product:

Enstrip AForm ☐ Lump ☐ Granular ☐ Powder ☒ Dusty Powder ☐ Slurry ☐ LiquidSpecific Gravity —Hygroscopic ☒pH —Water Soluble ☒Viscosity —Oxidant ☒Boiling Point —Reducer —Freezing Point —Odor Irritating causticVapor Pressure (25° C) —Other —

Shipping, Storage & Handling:

Shipping Container SteelSize(s) 25, 50, 100 #Repackage in Steel, wax-lined fiberICC Label(s) White (poison - cyanide)House Label(s) Oxidizing material

Storage Temperature/Conditions

110° F (Max.)(Min.) —☒ Indoor ☐ Outdoor ☒ Dry ☐ Wet ☐ Keep from freezing
☐ Keep in "hot" room (110° F)Shelf Life 9 monthsAvoid ☐ Light ☐ Shock ☐ Air ☒ Moisture ☐ FreezingCorrosive to Container NoDisposal Flush with water

(in case of breakage, Leakage, spillage)

Personnel Protection When Handling:

☒ Goggles ☐ Face Shield ☒ Respirator ☐ Protective Ointment

Protective Clothing

Depending on local
ventilation conditions☒ Apron ☒ Rubber Gloves ☐ Jacket ☒ Boots ☐ Rubber Suit

PRODUCT INFORMATION FORMStorage Hazards:

Flash Point (Open Cup) _____

(Closed Cup) _____

Fire Point _____

Autoignition Point 420°F

Explosibility: Temperature _____

Min.% _____

Max.% _____

Of dust - $\geq 0.2 \text{ oz/ft}^3$. Max pressure - 40 psig.Effect of:Heating Ignition (420°F)Volatiles None

Pressure (container heated to 130°F for 2 days) _____

None

Pressure (container opened after 2 days at 130°F) _____

NoneLight NoneSpark Dust explosion & fire possibleShock See sparkEvaporation NoneAging Some decompositionFreezing NoneAvoid Contact with:

Air _____

Reducers ✓Moisture ✓Acids ✓ (HCN fumes !)

Oxidizers _____

Alkalis _____

Others _____

Exothermic Reactions:Acids; mild reducing agents; waterViolent Reactions with:Strong reducing agents (especially if moisture present)Decomposition Products in a Fire:Cyanide, cyanates, cyanogen, nitric acid, nitro-aromatic compounds, toxic nitrogen oxides.Fire Control Methods:CO₂, foam, water*

*Use copious amounts. Insufficient amounts will tend to spread fire.

PRODUCT INFORMATION FORMUse:

Concentration 20 oz/gal. Temperature Room - 140°F
pH 11.5 @ 20 oz/gal. Other _____
Exhaust _____ Yes (☒ if used hot) No () _____
Disposal Flush with copious amounts of water. Hypochlorite for cyanide disposal
(in case of leakage, spillage or dumping)
Tanks & Storage Containers Steel
Pumps, Filters Steel

Toxicology:Toxicity - by ingestion

- () Practically non toxic (Lethal Dose above 1 quart).
() Slightly toxic (L.D. between 1 pint and 1 quart).
() Moderately toxic (L.D. between 1 ounce and 1 pint or 1 pound).
() Very toxic (L.D. between 1 teaspoonful and 1 ounce).
() Extremely toxic (L.D. between 7 drops and 1 teaspoonful).
(☒) Super toxic (a taste, less than 7 drops).
() Not known, but probably would be rated as:
() Special Precautions.

PRODUCT INFORMATION FORM

Toxicology:

Toxicity - by inhalation

- () Practically non-toxic
- () Slightly toxic, low hazard for single or repeated exposures.
- (☒) Moderately toxic, moderate hazard for single or repeated exposures.
- () Highly toxic, severe hazard for single or repeated exposures.
- (☒) Maximum atmospheric concentration (8-hour, daily exposures)
recommended by ACGIH for dusts, mists, fumes, vapors: $5 \text{ mg}/\text{M}^3$ as dust or
mist, calc. as cyanide.
- (☒) Nature of principal toxic effects: *Irritant to nose and throat and systemically toxic.*
- () Information not available, but toxicity is presumed to be:
- (☒) Special Precautions: *Use ventilation or appropriate respirators
To prevent inhalation of dust or mist*

Toxicity or Injury - by skin contact

- () No Systemic effects via skin absorption.
- (☒) Possible systemic effects via skin absorption.
- () Severe systemic effects via skin absorption.
- () Non-irritating to skin or mucous membranes.
- () May cause skin or mucous membrane irritation.
- (☒) Rapidly damaging to skin or mucous membranes.
- (☒) Special precautions - *prevent skin contact.*

PRODUCT INFORMATION FORMTissues or Organs Affected:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Skin | <input type="checkbox"/> Gastrointestinal |
| <input checked="" type="checkbox"/> Mucous membranes | <input type="checkbox"/> Liver |
| <input checked="" type="checkbox"/> Eyes | <input type="checkbox"/> Genito urinary |
| <input checked="" type="checkbox"/> Nose & Throat | <input type="checkbox"/> Muscles |
| <input type="checkbox"/> Oral & Dental | <input type="checkbox"/> Bones |
| <input type="checkbox"/> Ears | <input type="checkbox"/> Respiratory |
| <input type="checkbox"/> Brain | <input checked="" type="checkbox"/> Blood |
| <input type="checkbox"/> Lungs | <input type="checkbox"/> Cardiovascular |
| | <input checked="" type="checkbox"/> Nervous System |

Emergency Medical TreatmentAntidote:External

- ☒ Flush area with water.
- ☐ Flush area with dilute acid.
- ☐ Flush area with dilute alkali.
- ☐ Other.
- ☐ Report to doctor.

Eyes

- ☒ Wash with much water.
- ☒ Report to doctor

PRODUCT INFORMATION FORMAntidote:Internal

- ☐ Induce vomiting
- ☐ Give emetics
- ☐ Vinegar water
- ☐ Sodium Bicarbonate
- ☐ Egg Whites
- ☐ Milk of magnesia, lime water, aluminum hydroxide gel.
- ☐ Drink much water
- ☒ Other If breathing has stopped, apply artificial respiration at once.
- ☒ Report to doctor Administer amyl nitrite by inhalation. Call physician!

The information given herein by our Corporation concerns only the product as sold by us, and may not be applicable to the product when present in a composition or mixture resulting from its use by the customer, or prepared by the customer or for the customer by a party other than our Corporation.

Date: 11/29/71

Corporation Entlone, Inc.
Signed by Carl F. Smith
Title Assistant to Technical Director

ENTHONE
INCORPORATED
WEST HAVEN, CONNECTICUT

Mailing Address: BOX 1900
NEW HAVEN, CONNECTICUT 06508
(203) 934-8611
Cable Address: ENTHONE



A SUBSIDIARY OF AMERICAN SMELTING AND REFINING COMPANY

November 30, 1971

AIR MAIL

Mr. A. W. Wildanger
Safety Engineer
Douglas Aircraft Company
3855 Lakewood Boulevard
Long Beach, Calif. 90801

Dear Mr. Wildanger:

Per your recent request for handling, usage, and/or toxicological information, we are enclosing the Product Information Form of the Metal Finishing Suppliers' Association, Inc., for the following product:

ENSTRIP A

This very comprehensive form has been developed to provide you with all the necessary information required to handle and use our product safely.

If we may be of further assistance to you in this matter, please do not hesitate to contact us.

Very truly yours,

ENTHONE, INC.

A handwritten signature in cursive script, appearing to read "Ruth F. Smith", with a stylized flourish at the end.

(Miss) Ruth F. Smith
Assistant to Technical Director

RFS/js

Enclosure

cc: D. Seymour



CREATES NEW HORIZONS IN METAL FINISHING